

**【Claim 1】**

A dishwasher comprising:

a cabinet;

a door rotatably mounted on a front side of the cabinet and having a display formed on an upper side thereof;

a top table for covering the upper side of the door and having a hole of a predetermined size formed on a portion contacting the display; and

a refraction unit inserted into the hole formed on the top table, for refracting light from the display.

**【Claim 2】**

The dishwasher according to claim 1, wherein the refraction unit is a transparent prism.

**【Claim 3】**

The dishwasher according to claim 1, wherein the refraction unit has a shape of an about rectangular parallelepiped.

**【Claim 4】**

The dishwasher according to claim 1, wherein the refraction unit has a refraction plane formed sloppily at a predetermined angle therein so that a user checks the display even at a position spaced apart a predetermined distance from the top table.

**【Claim 5】**

The dishwasher according to claim 1, further comprising:  
a handle mounted on a front side of the door; and  
a switch formed on one side of the door, for allowing the refraction unit to be raised or lowered.

**【Claim 6】**

The dishwasher according to claim 1, further comprising:  
a spring unit mounted on a backside of the refraction unit, for allowing the refraction unit to be raised a predetermined height when a user presses the refraction unit and allowing the refraction unit to be lowered to an original position thereof when a user presses the refraction unit again.

**【Claim 7】**

The dishwasher according to claim 1, further comprising:  
a drive unit mounted on a backside of the refraction unit, for allowing the refraction unit to be raised a predetermined height when a user presses the refraction unit and allowing the refraction unit to be lowered to an original position thereof when a user presses the refraction unit again.

**【Claim 8】**

The dishwasher according to claim 1, further comprising a switch formed on one side of the cabinet, for allowing the refraction unit to be raised or lowered.

**【Claim 9】**

\*The dishwasher according to claim 4, wherein the refraction plane has a configuration such that a backward portion thereof is higher than a forward portion thereof.

**【Claim 10】**

A display structure of a dishwasher, comprising:

- a tub having a washing tub formed therein;
- a cabinet enclosing a periphery of the tub;
- a door coupled to a front side of the cabinet and having a display formed on an upper side thereof, for displaying a washing state;
- a top plate seated on an upper side of the cabinet;
- an insertion hole formed vertically in a front side of the top plate in a passing through manner;
- a prism inserted into the insertion hole, for refracting light displayed on the display at a predetermined angle; and
- a drive unit mounted inside the top plate, for moving the prism in an up/down direction.

**【Claim 11】**

The display structure according to claim 10, wherein the drive unit

comprises a spring mounted on a backside of the prism.

**【Claim 12】**

The display structure according to claim 10, wherein the drive unit comprises:

a drive motor;

a gear connected with a rotational shaft of the drive motor; and

a rack engaged with the gear, for moving in an up/down direction.

**【Claim 13】**

The display structure according to claim 12, wherein the drive motor is a step motor rotatable in forward/backward directions.

**【Claim 14】**

The display structure according to claim 10, further comprising a switch mounted on a side portion of the door, for allowing the prism to be movable in an up/down direction.

**【Claim 15】**

The display structure according to claim 10, wherein the prism comprises a transparent body through which light passes.

**【Claim 16】**

A display structure of a dishwasher, comprising:

a door having a display on an upper side thereof;

a top table for covering the upper side of the door and having a hole of a predetermined size right above the display; and

a light transmission unit inserted into the hole formed on the top table, for allowing the display to be checked from an outside.

**【Claim 17】**

The display structure according to claim 16, wherein the light transmission unit comprises a transparent body to refract light emitted from the display at a predetermined angle.

**【Claim 18】**

The display structure according to claim 16, wherein the light transmission unit reciprocates vertically in an inside of the hole.

**【Claim 19】**

The display structure according to claim 16, further comprising a drive unit mounted on a backside of the light transmission unit, for allowing the light transmission unit to be raised or lowered.

**【Claim 20】**

The display structure according to claim 19, further comprising a switch for controlling driving of the drive unit.

**【ABSTRACT】**